

**IN THE CLAIMS:**

Please **AMEND** claims 1, 7, 10-11 and 13 as follows.

Please **ADD** new claims 14-20 as shown below.

1. (Currently Amended) A system, comprising: ~~for remotely and transparently managing security associations of internet protocol security, the system comprising:~~
  - an application device;
  - a service device;
  - a communication network configured to connect said application device to said service device;
  - an internet protocol security service ~~unit~~—configured to provide one or more internet protocol security services comprising at least one of authentication services and encryption services, said internet protocol security service ~~unit~~—deployed in said service device;
  - at least one management client configured to issue security association management requests to create and manage, with a session key management protocol, security associations for use by said provided internet protocol security services, said at least one management client deployed in said application device; and
  - a management server configured to receive said security association management requests issued from said at least one management client and to respond, in connection with said internet protocol security service~~—unit~~, to said security association management

requests received at said management server, said management server deployed in said service device.

2. (Previously Presented) The system according to claim 1, wherein said application device further comprises an interface configured to provide communication between said at least one management client associated with said application device and said management server.

3. (Previously Presented) The system according to claim 1, wherein said security association management requests comprise at least one of adding requests configured to add security associations, deleting requests configured to delete security associations, and querying requests configured to query about security associations.

4. (Previously Presented) The system according to claim 2, wherein said interface is further configured to use sockets for communication with said management server.

5. (Previously Presented) The system according to claim 2, wherein said interface comprises data structures used in communication between said management client and said management server.

6. (Previously Presented) The system according to claim 2, wherein said interface is implemented as a software library linked dynamically or statistically into a corresponding management client.

7. (Currently Amended) The system according to claim 1, wherein said internet protocol security service ~~unit~~ and said management server are configured to use a local communication channel for communications between said internet protocol security service ~~unit~~ and said management server.

8. (Previously Presented) The system according to claim 1, wherein at least one application device comprises two or more management clients, and wherein at least two of said management clients are configured to use different session key management protocols.

9. (Previously Presented) The system according to claim 1, wherein said communication network comprises a local area network.

10. (Currently Amended) A method, comprising: ~~of remotely and transparently managing security associations of internet protocol security, the method comprising:~~ providing one or more internet protocol security services comprising at least one of authentication services and encryption services from an internet protocol security

service-unit, said internet protocol security service unit-being deployed in a service device;

issuing security association management requests to create and manage, with a session key management protocol, security associations for use by said provided internet protocol security services, from at least one management client, said at least one management client being deployed in an application device;

receiving in a management server said security association management requests issued from said at least one management client; and

responding, in connection with an internet protocol security service-unit, to said security association management requests received at said management server, said management server being deployed in said service device,

wherein said application device is connected to said service device by a communication network.

11. (Currently Amended) The method according to claim 10, wherein said issuing comprises communicating at least one of said security association management requests issued from an-said application device and corresponding responses via an interface associated with said application device.

12. (Previously Presented) The method according to claim 10, wherein said issuing comprises issuing said security association management requests comprising at

least one of adding requests for adding security associations, deleting requests for deleting security, and querying requests for querying about security associations.

13. (Currently Amended) A system, ~~comprising: of remotely and transparently managing security associations of internet protocol security, the system comprising:~~

application means;

servicing means;

communication means for connecting said application means with said servicing means;

internet protocol security service means for providing one or more internet protocol security services comprising at least one of authentication services and encryption services, said internet protocol security service means being deployed in said servicing means;

at least one management client means for issuing security association management requests to create and manage, with a session key management protocol, security associations for use by said provided internet protocol security services, said at least one management client means being deployed in said application means; and

management server means for receiving said security association management requests issued from said at least one management client means and for responding, in connection with said internet protocol security service unit, to said security association

management requests received at said management server, said management server means being deployed in said servicing means.

14. (New) An apparatus, comprising:

at least one management client configured to issue security association management requests to create and manage, with a session key management protocol, security associations for use by an internet protocol security service; and

an interface configured to communicate said issued security association management requests to a management server external to said apparatus, said management server configured to respond to said security association management requests in connection with an internet protocol security server configured to provide one or more internet protocol security services comprising at least one of authentication services and encryption services.

15. (New) The apparatus according to claim 14, wherein said security association management requests comprise at least one of adding requests configured to add security associations, deleting requests configured to delete security associations, and querying requests configured to query about security associations.

16. (New) An apparatus, comprising:

an internet protocol security server configured to provide one or more internet protocol security services comprising at least one of authentication services and encryption services; and

a management server configured to receive security association management requests issued from at least one management client external to said apparatus and to respond, in connection with said internet protocol security server, to said received security association management requests.

17. (New) The apparatus according to claim 16, wherein said internet protocol security server is configured to use a local communication channel for communications between said internet protocol security server and said management server.

18. (New) A method, comprising:

issuing security association management requests to create and manage, with a session key management protocol, security associations for use by internet protocol security services, from at least one management client deployed in an application device; and

communicating at least one of said issued security association management requests to a management server external to said application device.

19. (New) The method according to claim 18, wherein said communicating comprises communicating at least one of said security association management requests issued from said application device and corresponding responses via an interface associated with said application device.

20. (New) The method according to claim 18, wherein said issuing comprises issuing said security association management requests comprising at least one of adding requests for adding security associations, deleting requests for deleting security, and querying requests for querying about security associations.